

Weston Solutions, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
732-585-4400 • Fax 732-225-7037
www.westonsolutions.com

229079

Airsauples

The Trusted Integrator for Sustainable Solutions

REMOVAL SUPPORT TEAM 2 EPA CONTRACT EP-W-06-072

RST 2-02-F-0838

TRANSMITTAL MEMO

To:

Nicholas Magriples, OSC

Removal Action Branch

U.S. EPA Region II

From:

Smita Sumbaly, Inorganic Data Reviewer

RST 2 Region II

Subject:

Jewett White Lead Company Site

Data Validation Assessment

Date:

February 12, 2009

The purpose of this memo is to transmit the following information:

• Data validation results for the following parameters:

Total Lead

12 samples

Matrices and Number of Samples

Air

12 samples

• Sampling Dates:

December 17 and 18, 2008

The final data assessment narrative and original analytical data package are attached.

cc:

RST 2 SPM:

Gary Boyer

RST 2 SITE FILE TDD #:

TO-0009-0126

ANALYTICAL TDD #:

TO-0009-0136

PCS#

2139

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORAND	OUM					
DATE:	February 1	1, 2009				
TO:	Nick Magr USEPA Re	_				
FROM:	Smita Sum RST 2 Data	<u>baly</u> a Review Tea	a m			
SUBJECT:	QA/QC Co	mpliance Re	view Summa	ary		
examined and	uality control and compared to EPA sluated as applicable	tandards for		•	_	
	Data Completeness Spectra Matching (Surrogate Spikes Matrix Spikes/Dup Calibration	Quality	Chromate Holding			
Any statistical may be review	measures used to su ed by others.	apport the foll	owing conclu	sions are at	tached so that the	revie
<u>Summa</u>	ry of Results					
		I <u>Lead</u>	II	III	_	
Acceptable as a Acceptable with Unacceptable, Unacceptable		_X	:		· · · · · · · · · · · · · · · · · ·	
Data Reviewed	bv:		<i>(1</i>	-6	Date: عالم الم	n-0
Approved By:	_	January 8	y	_	Date: 2/0/09	<u> </u>
Area Code/Pho	one No.: (73	2) 585-4410				

NARRATIVE

CASE No. 2139

SITE NAME: Jewett White Lead Company Site

2000 Richmond Terrace
Staten Island, New York

Laboratory Name: Chemtech, 284 Sheffield Street, Mountainside, New Jersey 07092.

INTRODUCTION:

The laboratory's portion of this Case consisted of 12 air samples collected on December 17 and 18, 2008.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Total Lead - Inorganic parameter.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

IV. Inorganic:-

Y Data Summary/Tabulated Results	Y Initial and Continuing Calibration
Y Blanks	Y ICP Interference Check
NA Spike Sample Recovery	Y Duplicates
Y Detection Limits	NA Standard Addition Results
NA ICP Serial Dilutions	Y Holding Times
NA ICP Interelement Correction Factors	NA ICP Linear Ranges
Y Chain of Custody	Y Raw Data
Y Quantitation, Conversions, Dilutions,	etc.

Comments:

1. Refer to Data Assessment Narrative.

STANDARD OPERATING PROCEDURE

Page 1 of 2

Title: F

Evaluation of Inorganic Data for the

Contract laboratory Program

Appendix A.2: Data Assessment Narrative

Date: September 2006

Number: HW-2

Revision: 13

PCS #: 2139

Site: Jewett White Lead Chemical Site

Matrix:

SDG#: Z5921

Lab: Chemtech

Air: 12

Contractor: WESTON-RST 2

Reviewer: SMITA SUMBALY

A.2.1 Validation Flags-

The following flags have been applied in red by the data validator and must

be considered by the data user.

. J-

This flag indicates the result qualified as estimated.

Red-Line-

A red-line drawn through a sample result indicates an unusable value. The red-lined data are known to contain significant errors based on documented

information and must not be used by the data user.

Fully Usable Data-

The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers-

The legend of contractual qualifiers applied by the laboratory on Form Is are

found on page B - 23 of SOW ILM05.3.

A.2.2 The data assessment is given below and on the attached sheets.

On December 17 and 18, 2008, USEPA Region II RST 2 sampling personnel collected 12 air samples, including two field blanks and one lot blank from the Jewett White Lead Company Site, located in 2000 Richmond Terrace, Staten Island, New York. Within twenty-four hours of collection, the samples were shipped overnight by FedEx courier to Chemtech, 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that the samples were received intact and properly custody sealed.

Lead analysis for air matrix was prepared by NIOSH Method No. 7300 and analyzed by SW 846 Method No. 6010B.

Client identification (ID) and laboratory ID numbers are as follows:

Field Sample ID	Lab Sample ID	Matrix	Analysis	Sampling Date
erdina i grantentation en				
JW-LD-3	Z5921-01			12/18/2008
JW-LD-4	Z5921-02	1	•	12/18/2008
JW-LD-5	Z5921-03	1.	, ,	12/18/2008
JW-LD-6	Z5921-04	Air	Lead	12/18/2008
JW-LD-7	Z5921-05	1		12/18/2008
JW-LD-BK01	Z5921-06	7		12/18/2008

STANDARD OPERATING PROCEDURE

Page 2 of 2

Title:

Evaluation of Inorganic Data for the

Contract laboratory Program

Appendix A.2: Data Assessment Narrative

Date: September 2006

Number: HW-2 Revision: 13

A.2.2 Continuation

Field Sample ID	Lab Sample ID	Matrix	Analysis	Sampling Date
		35		
JW-LD-BK-1	Z5921-07		·	12/17/2008
JW-LD-FB	Z5921-08	7		12/17/2008
JW-LD-FB 1218	Z5921-09	T 1	12/18/2008	
JW-LD-LB	Z5921-10	Air	Air Lead	12/18/2008
JW-LD-RST-1218	Z5921-11	1		12/18/2008
JW-LD-RST2	Z5921-12	1		12/17/2008

All samples were submitted for screening data with definitive detection limit QA objectives. Matrix Spike, Matrix Spike Duplicate and a field duplicate sample was not collected. All samples were analyzed within the holding time. The laboratory provided the supporting raw data for this package. This data package contains summary of analytical results, blank results, initial and continuing calibration recovery, lab duplicate results, laboratory control sample results, and analysis run log. The correlation coefficient (r^2) of standard concentration versus absorbance readings is greater than (>) 0.995 for linear calibration curves generated in the data package. All ICVs/CCVs were run at appropriate intervals as noted on the Calibration Summary form and all ICV/CCV recoveries are within the acceptable range of 90 to 110%. All ICB/CCBs are reported below the method detection limit. Laboratory duplicate analysis is within QC criteria (\leq 20% RPD) and LCS recoveries are within the acceptable range of 80-120%.

Since the sample analyses were requested for screening data with definitive confirmation, data was evaluated for holding time, calibration, and detection limit criterion.

The results presented in the data package are acceptable as reported.

A.2.3 Contract Problem/Non-Compliance:

Contractor Reviewer:	Smita Sumbaly Signature	<u> </u>
Verified by:	Signature	Date.
	Signature	Date:

TOTAL METALS WORK TABLE

Project: Jewett White Lead Company Site

SAMPLE #/CONCENTRATION (UG/M3)

Sampling Dates: December 17 and 18, 2008

Matrix:	Reporting	Air	Air	Air	Air
Client ID:	Limit (RL)	JW-LD-3	JW-LD-4	JW-LD-5	JW-LD-6
Lab ID:		Z5921-01	Z5921-02	Z5921-03	Z5921-04
Air Volume		728 L	709.8 L	704.45 L	731.83 L
Dilution Factor	ug/Filter	1.0	1.0	1.0	1.0
Lead	0.042	0.041 J	0.046 J	0.057 J	0.073

Matrix:	Reporting	Air	Air	Air	Air
Client ID:	Limit (RL)	JW-LD-7	JW-LD-BK01	JW-LD-BK-1	JW-LD-FB
Lab ID:		Z5921-05	Z5921-06	Z5921-07	Z5921-08
Air Volume		743.18 L	32.9 L	556.7 L	NA NA
Dilution Factor		<i>≯</i> 1.0	1.0	. 1.0	1.0
Lead	0.042	0.053 J	0.721 J	0.379	U

Matrix:	Reporting	Air	Air	Air	Air
Client ID:	Limit (RL)	JW-LD-FB1218	JW-LD-LB	JW-LD-RST-1218	JW-LD-RST2
Lab ID:		Z5921-09	Z5921-10	Z5921-11	Z5921-12
Air Volume		NA	NA NA	161.54 L	556.48 L
Dilution Factor		1.0	1.0	1.0	1.0
Lead	0.042	U	Ü	0.237 J	0.071 J

Inorganic Qualifiers

U - non-detected compound

J - estimated value

R - rejected compound

Note: - RL reported on the Form Is have been adjusted to reflect the final volume and volume of air



February 11, 2009

Weston Solutions, Inc. Raritan Plaza Suite 201 1090 King Georges Post Road Edison, NJ 08837-3703

Attn: Smita Sumbaly

Re: Project ID: RFP 085 Chemtech Project # Z5921

Enclosed please find the revised Case Narrative and Nor Conformance sheet, as per your request. The pages are numbered. Please replace the old data.

Please do not hesitate to contact us if we can be of further service. We appreciate your patience in this matter.

Sincerely,

Krupa Dubey
QA/QC Director
CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

Mountainside, NJ 07092

(908) 789-8900 Ext. 208

www.chemtech.net

www.chemtech.net Since 1967



COVER PAGE

ProjectID:

RFP 085

OrderID:

Z5921

CustomerName:

Weston Solutions, Inc.

LAB SAMPLE NO.	CLIENT SAMPLE NO.
Z5921-01	JW-LD-3
Z5921-02	JW-LD-4
Z5921-03	JW-LD-5
Z5921-04	JW-LD-6
Z5921-05	JW-LD-7
Z5921-06	JW-LD-BK01
Z5921-07	JW-LD-BK-1
Z5921-08	JW-LD-FB
Z5921-09	JW-LD-FB1218
Z5921-10	JW-LD-LB
Z5921-11	JW-LD-RST-1218
Z5921-12	JW-LD-RST2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: MIdua V	Mildred V. Reyes Reys IP開音 approving this document	
Date:	i2009.01.05 15:56:46 -05'00'	



CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 085
Project # N/A
Chemtech Project # Z5921

A. Number of Samples and Date of Receipt:

12 Air samples were received on 12/19/08.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Metals Group3. This data package contains results for Metals Group3.

C. Analytical Techniques:

The analysis of Metals Group3 was based on method 7300/6010B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Lab Control Sample met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature

Aldred Vheyes

Mildred V. Reyes I am approving this document 2009.02.10 15:21:18 -05'00'



İnorganic

DATA REPORTING QUALIFIERS

For reporting results, the following "Results Qualifiers" are used:

J	If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	If the analyte was analyzed for, but not detected.
E	The reported value is estimated because of the presence of interference
M	Duplicate injection precision not met.
N	Spiked sample recovery not within control limits.
S	The reported value was determined by the Method of Standard Addition (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less that 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.
***	Entering "S", "W" or "+" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
D	The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers "P" for ICP instrument "A" for Flame AA "PM" for ICP when Microwave Digestion is used "AM" for flame AA when Microwave Digestion is used "FM" for furnace AA when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi – Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed
OR	"NR" for analyte not required to be analyzed Indicates the analyte's concentration exceeds the calibrated range of the

QA Control # A3040282

instrument for that specific analysis.

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-3	

Lab Name: Chemtech Consulting Group Contract: Weston Solutions, Inc. Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921 Matrix (soil/water): AIR Lab Sample ID: Z5921-01 Level (low/med): LOW Date Received: 12/19/2008 Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/M3 CAS No. Analyte Concentration C Q M									_
Matrix (soil/water): AIR Lab Sample ID: Z5921-01 Level (low/med): LOW Date Received: 12/19/2008 Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/M3	Lab Name:	Chemtech	Consulting	Group	Contract:	Weston Solut:	ions, Inc.		
Level (low/med): LOW Date Received: 12/19/2008 Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/M3	Lab Code:	CTECH	Case No.:	Z5921	NRAS No.:	Z5921	SDG NO.:	Z5921	
Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/M3	Matrix (soi	il/water):	AIR		Lab Sample ID:	Z5921-01			
Concentration Units (ug/L or mg/kg dry weight): UG/M3	Level (low/	med):	LOW	<u>.</u>	Date Received:	12/19/2008			
	Solids:	0.0	<u> </u>		•				
CAS No. Analyte Concentration C Q M	Concentrati	on Units (u	g/L or mg/kg	g dry weight)	: UG/M	3			
		CAS No	. Ar	nalyte	Concentration	C ç	5 м		

0.041

7439-92-1

Lead

Color Before:		Clarity Before:	Texture:	
Color After:		Clarity After:	Artifacts:	
Comments:				
	· · · · · · · · · · · · · · · · · · ·			<u> </u>
-				

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-	4
V	

Lab Name:	Chemtech	Consulting	Group	Contract: V	Vestor	 Solutions	Inc	
Lab Code:	CTECH	Case No.		NRAS No.:	Z592		DG NO.:	Z5921
Matrix (so	il/water):	AIR		Lab Sample ID:	z592	1-02		
Level (low,	/med):	LOW		Date Received:	12/1	9/2008		
% Solids:	0.0	0			<u> </u>		 .	
Concentrati	lon Units (ug/L or mg/l	kg dry weight)	: UG/M3	_			
	CAS No). I	\nalyte .	Concentration	С	Q	М	
	7439-	92-1	Lead	0.046	J		P	

Color Before:		Clarity Before:	 Texture:	
Color After:		Clarity After:	 Artifacts:	
Comments:	•		٠.,٠	
_			 	

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TT TD F	
JW-LD-5	

Lab Name:	Chemtech	Consulting	Group	Contract:	Weston	Solutions, I	Inc.	
Lab Code:	СТЕСН	Case No.:	Z5921	NRAS No.:	Z5921	SDG	NO.:	Z 5921
Matrix (soi	il/water):	AIR	1	Lab Sample ID:	Z5921	-03	<u> </u>	
Level (low/	med):	LOW	,	Date Received:	12/19	/2008	•	
% Solids:	0.0	0						•
Concentrati	on Units (ug/L or mg/k	g dry weight):	UG/M	3			
	CAS No). A	nalyte	Concentration	С	Q	м	Ī

7439-92-1

Lead

0.057

Color Before:		Clarity Before:	Texture:	
Color After:	-	Clarity After:	Artifacts:	
Comments:				
Commencs.				

1A-IN

INORGANIC ANALYSIS DATA SHEET

· EPA SAMPLE NO.

JW-LD	-6	

		Consulting			Weston Solution	,	
ab Code:	CTECH	Case No.:	Z5921	NRAS No.:	<u>z5921</u>	SDG NO.: Z	5921
atrix (so	il/water):	AIR		Lab Sample ID:	Z5921-04		
evel (low	/med):	LOW		Date Received:	12/19/2008		
Solids:	0.	n			• .	•	

7439-92-1	Lead	0.073	P

Color Before:	Clarity Before:	 Texture:	
Color After:	 Clarity After:	Artifacts:	
Comments:			

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

							JW-	-LD7
Lab Name:	Chemtech	Consulting	g Group	Contract:	Weston	Solution		
Lab Code:	СТЕСН	Case No.	: <u>z5921</u>	NRAS No.:	Z592	1	SDG NO.:	Z 5921
Matrix (soil	./water):	AIR		Lab Sample ID:	z 592	1-05		
Level (low/m	led) :	LOW		Date Received:	12/1	9/2008		·
% Solids:	0.0				-			-
Concentratio	n Units (u	ıg/L or mg/k	g dry weight):	UG/M	3		•	
	CAS No	. 2	nalyte	Concentration	С	Q	М]
•	7439-9	92-1 1	Lead	0.053	J		P] .

Color Before:	 Clarity Before:		Texture:	
Color After:	Clarity After:		Artifacts:	
		•		
Comments:	 	·.		
- -				
<u>-</u>	 			

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

_		
	JW-LD-BK01	

Lab Name: Chemtech		Consulting	Group Contract: We		Weston Soluti		
Lab Code:	CTECH	Case No.:	Z5921	NRAS No.:	Z5921	SDG NO.:	Z5921
Matrix (soil	L/water):	AIR		Lab Sample ID:	Z5921-06		
Level (low/m	ned):	LOW		Date Received:	12/19/2008		
% Solids:	0.0) .				,	
Concentration	on Units (u	ng/L or mg/kg	g dry weight):	UG/M3			
	CAS No	. Ar	nalyte	Concentration	C Q	м	7

0.721

7439-92-1

Lead

Color Before:		Clarity Before:	Texture:
Color After:		Clarity After:	Artifacts:
Comments:			
· · · · · · · · · · · · · · · · · · ·			
			
		•	

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LE	-BK-1		

Lab Name:	Chemtech	Consultin	g Group	Contract:	Weston Solu	ıtions, Inc	3.	
Lab Code:	СТЕСН	Case No.	: Z5921	NRAS No.:	Z5921	SDG NO	.:	Z5921
Matrix (soi	il/water):	AIR	· .	Lab Sample ID:	Z5921-07		•	
Level (low/	med):	LOW		Date Received:	12/19/200)8		
% Solids:	0.0	0					•	
Concentrati	on Units (ug/L or mg/	kg dry weight)	: UG/M3	3			
•	CAS No	o.	Analyte	Concentration	С	Q	М	
								

Color Before:	Clarity Before:	Texture:
Color After:	Clarity After:	Artifacts:
Comments:		

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-FB	

Lab Name:	Chemtech	Consulting	Group	Contract:	Weston Solution	ons, Inc.	·	
Lab Code:	CTECH	Case No.:	<u>z5921</u>	NRAS No.:	Z5921	SDG NO.:	Z5921	
Matrix (soi	.1/water):	AIR	<u> </u>	Lab Sample ID:	Z5921-08			
Level (low/	med):	LOW		Date Received:	12/19/2008			
% Solids:	0.0	0						

CAS No.	Analyte	Concentration	С	Q	м
7439-92-1	Lead	0.042	U		P

Color Before:	 Clarity	Before:		Texture:		•
Color After:	Clarity	After:	 	Artifacts:		
Comments:			,			
				/		

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-FB1218	

			2	•		· L	· · · · · ·	
Lab Name:	Chemtech	Consulting	Group	Contract:	Weston	Solutions	s, Inc.	
Lab Code:	CTECH	Case No.:	Z5921	NRAS No.:	Z592	1	EDG NO.:	Z 5921
Matrix (soi	.l/water):	AIR		Lab Sample ID:	Z592	1-09		
Level (low/	med):	LOW		Date Received:	12/1	9/2008		
% Solids:	. 0.0)					· .	
Concentrati	on Units (ıg/L or mg/kç	g dry weight):	UG/FII	TE		-	
	CAS No	Ar	nalyte	Concentration	С	Q	м	1

0.042

U

7439-92-1

Lead

Color Before:		Clarity Before:		Texture:	
Color After:	·	Clarity After:		Artifacts:	
Comments:			·		

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

,	JW-LD-LB	

Chemtech Consulting Group

Contract:

Weston Solutions, Inc.

Lab Code:

CTECH

Case No.: Z5921

NRAS No.:

Z5921

SDG NO.:

Z5921

Matrix (soil/water):

AIR

Lab Sample ID:

Z5921-10

Level (low/med):

LOW

Concentration Units (ug/L or mg/kg dry weight):

Date Received:

12/19/2008

% Solids:

0.0

UG/FILTE

CAS No.	Analyte	Concentration	С	Q	м
7439-92-1	Lead	0.042	Ū		P

Color Before:	Clarity Before:	Texture:
Color After:	Clarity After:	Artifacts:
Comments:		

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-RST-1218

		,			<u> </u>		
-	Chemtech Consulti				Solutions		
Lab Code:	CTECH Case No	o.: <u>z5921</u>	NRAS No.:	Z592	1 .	SDG NO.:	Z5921
Matrix (soil	/water): AIR		Lab Sample ID:	<u>z592</u>	1-11		
Level (low/m	ed): LOW	<u></u>	Date Received:	12/1	9/2008		
% Solids:	0.0	:		•	·		
Concentration	n Units (ug/L or mo	g/kg dry weight):	UG/M	3			
•	CAS No.	Analyte	Concentration	С	Q	М	
	7439-92-1	Lead	0.237	J		P	
				,			
	_						
							•
· ·							
	e t						•
				-			
	,		· ·				
							•
					.·		
						-	
Color Befor	re:	Clarity Befor	e:		Texture:		
Color After	r:	Clarity After	·:		Artifacts	:	`
		•			•		
Comments:							

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

· · · · · · · · · · · · · · · · · ·	
JW-LD-RST2	

						<u> </u>	
Lab Name:	Chemtech	Consulting	Group	Contract:	Weston Solution	ons, Inc.	· · · · · · · · · · · · · · · · · · ·
Lab Code:	СТЕСН	Case No.:	Z5921	NRAS No.:	Z5921	SDG NO.:	Z5921
Matrix (so:	il/water):	AIR	<u></u>	Lab Sample ID:	Z5921-12	·	
Level (low,	med):	LOW		Date Received:	12/19/2008		v
% Solids:	0.0)				,	
Concentrati	on Units (ug/L or mg/kg	dry weight)	UG/M	13		
							7

GIS NO:	raidiyes	0011001102402011		<u>×</u>	1.1
7439-92-1	Lead	0.071	J		P
-			1		

Color Before:	Clarity Before:	Texture:
Color After:	Clarity After:	Artifacts:
Comments:		

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEN	MTECH PROJECT NUMBER: Z5921		MATRIX: Air	* *,	
METH	HOD: 7300/6010				•
					:
				NA NO	YES
1.	Calibration Summary met criteria.				1
2.	ICP Interference Check Sample Results	Summary Submitted.			
3.	Serial Dilution Summary (if applicable)	Submitted.		√ · ·	
4.	Laboratory Control Sample Summary (i	f annlicable) Submitte	d		
		,			
5.	Blank Contamination - If yes, list compo	ounds and concentration	ons in each blank:		◀.
			• •	•	
6.	Matrix Spike/Matrix Spike Duplicate Re	ecoveries Met Criteria		✓.	
	If not met, list those compounds and the	ir recoveries which fal	l outside the acceptable	. "	
	range.				
-					
7.	Sample Duplicate Analysis Met QC Crit	teria		✓	·
	If not met, list those compounds and the	ir recoveries which fal	l outside the acceptable		
	range.				
. •					٠
8.	Digestion Holding Time Met				. 🗸
•	If not met, list number of days exceeded	for each sample:			
	II not met, list number of days exceeded	tor cutir sumpre.	•	•	
					٠.
9.	Analysis Holding Time Met				✓
	If not met, list those compounds and the	ir recoveries which fal	l outside the acceptable		
	range.			•	
		•			
	Aldred V Reys	Mildred V. Reyes I am approving this 2009.02.10 15:16:3		· .	
OA RE	CVIEW		Date	 	-

Page 1 of 1

Weston Solutions, Inc

Edison, NJ 08837

RFP#: 085/PO# 0065659

CHAIN OF CUSTODY RECORD

Site #: JW

Contact Name: Gary Boyer Contact Phone: 732-585-4437 No: JW-12/18/08-0001

Lab: Chemtech

Lab Phone: 908-789-8900

Lab#	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	JW-LD-3	Perimeter	Lead (Pb)		12/18/2008	1	MCE Cassette	728	Liters
	JW-LD-4	Perimeter	Lead (Pb)		12/18/2008	1	MCE Cassette	709.8	Liters
	JW-LD-5	Perimeter	Lead (Pb)		12/18/2008		MCE Cassette	704.45	Liters
	JW-LD-6	Perimeter	Lead (Pb)		12/18/2008	1	MCE Cassette	731.83	Liters
<u> </u>	JW-LD-7	Perimeter	Lead (Pb)	,	12/18/2008	1	MCE Cassette	743.18	Liters
	JW-LD-BK01	JW-LD-PERS-BK01	Lead (Pb)		12/18/2008	1	MCE Cassette	32.9	Liters
	JW-LD-BK-1	JW-LD-PERS-BK01	Lead (Pb)		12/17/2008	1	MCE Cassette	556.7	Liters
···-	JW-LD-FB	JW-LD-FB	Lead (Pb)		12/17/2008	1	MCE Cassette		
	JW-LD-FB 12 18	JW-LD-FB	Lead (Pb)		12/18/2008	1	MCE Cassette		 ,
	JW-LD-LB	JW-LD-LB	Lead (Pb)		12/18/2008	.1	MCE Cassette		
	JW-LD-RST-1218	JW-RST	Lead (Pb)		12/18/2008	1	MCE Cassette	161.54	Liters
	JW-LD-RST2	JW-LD-RST-02	Lead (Pb)		12/17/2008	1	MCE Cassette	556.48	
		-							
<u> </u>		,							
Jan									

	·
	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY#

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all transfor	Gerry Beyou	12/18/08	Feil Ex	12/18/08	1900						1
			,							 	
	FED EX	12-19-0	8 a Juiezi	12-19-	9 9:4						



Weston Solutions, Inc.
Federal Programs Division
Suite 201
1090 King Georges Post Road
Edison, New Jersey 08837-3703
732-585-4400 • Fax 732-225-7037
www.westonsolutions.com

The Trusted Integrator for Sustainable Solutions

REMOVAL SUPPORT TEAM 2 EPA CONTRACT EP-W-06-072

RST 2-02-F-0838

TRANSMITTAL MEMO

To:

Nicholas Magriples, OSC

Removal Action Branch U.S. EPA Region II

From:

Smita Sumbaly, Inorganic Data Reviewer

RST 2 Region II

Subject:

Jewett White Lead Company Site

Data Validation Assessment

Date:

February 12, 2009

The purpose of this memo is to transmit the following information:

• Data validation results for the following parameters:

Total Lead

12 samples

Matrices and Number of Samples

Air

12 samples

• Sampling Dates:

December 17 and 18, 2008

The final data assessment narrative and original analytical data package are attached.

cc:

RST 2 SPM:

Gary Boyer

RST 2 SITE FILE TDD #:

TO-0009-0126

ANALYTICAL TDD #:

TO-0009-0136

PCS#

2139

U.S. ENVIRONMENTAL PROTECTION AGENCY

MENIORANDO) I VI						
DATE:	February	11, 2009			٠.		
TO:	<u>Nick Mag</u> <u>USEPA R</u>	riples, OSC egion II					
FROM:	Smita Sun RST 2 Dat	<u>ıbaly</u> ta Review Tea	m				
SUBJECT:	QA/QC Co	ompliance Re	view Summ	ary			
As requested qua examined and co areas were evalu	mpared to EPA	standards for o	measures for compliance.	r the data p Measures	ackages r	noted have been llowing general	
Sp Su M	ata Completeness bectra Matching brrogate Spikes atrix Spikes/Dup alibration	Quality	Blanks DFTPP and BFB Tuning Chromatography Holding Times Compound ID (HSL, TIC)				
Any statistical me may be reviewed	easures used to so by others.	upport the follo	owing conclu	usions are a	ttached so	that the review	
Summary	of Results						
		I <u>Lead</u>	II	III			
Acceptable as Sul Acceptable with O Unacceptable, Ac Unacceptable	Comments	X					
			,		• *		
Data Reviewed by	y: 1	Fruta	Sunt	ray	Date:	2/11/09	
Approved By:		Janufu &	<u> </u>	· · · · · · · · · · · · · · · · · · ·	Date:	210/09	
Area Code/Phone	No.: (73	2) 585-4410		•			

NARRATIVE

CASE No. 2139

SITE NAME: Jewett White Lead Company Site

2000 Richmond Terrace Staten Island, New York

Laboratory Name: Chemtech, 284 Sheffield Street, Mountainside, New Jersey 07092.

INTRODUCTION:

The laboratory's portion of this Case consisted of 12 air samples collected on December 17 and 18, 2008.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Total Lead - Inorganic parameter.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

IV. <u>Inorganic:</u>-

YData Summary/Tabulated ResultsYInitial and Continuing CalibrationYBlanksYICP Interference CheckNA Spike Sample RecoveryYDuplicatesYDetection LimitsNA Standard Addition ResultsNA ICP Serial DilutionsYHolding TimesNA ICP Interelement Correction FactorsNA ICP Linear RangesYChain of CustodyYRaw DataYQuantitation, Conversions, Dilutions, etc.

Comments:

1. Refer to Data Assessment Narrative.

STANDARD OPERATING PROCEDURE

Page 1 of 2

Title:

Evaluation of Inorganic Data for the

Contract laboratory Program

Appendix A.2: Data Assessment Narrative

Date: September 2006

Number: HW-2

Revision: 13

PCS #: 2139

Site: Jewett White Lead Chemical Site

Matrix:

SDG#: Z5921

Lab: Chemtech

Air: 12

Contractor: WESTON-RST 2

Reviewer: SMITA SUMBALY

A.2.1 Validation Flags-

The following flags have been applied in red by the data validator and must

be considered by the data user.

J-

This flag indicates the result qualified as estimated.

Red-Line-

A red-line drawn through a sample result indicates an unusable value. The

red-lined data are known to contain significant errors based on documented

information and must not be used by the data user.

Fully Usable Data-

The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers-

The legend of contractual qualifiers applied by the laboratory on Form Is are

found on page B-23 of SOW ILM05.3.

A.2.2 The data assessment is given below and on the attached sheets.

On December 17 and 18, 2008, USEPA Region II RST 2 sampling personnel collected 12 air samples, including two field blanks and one lot blank from the Jewett White Lead Company Site, located in 2000 Richmond Terrace, Staten Island, New York. Within twenty-four hours of collection, the samples were shipped overnight by FedEx courier to Chemtech, 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that the samples were received intact and properly custody sealed.

Lead analysis for air matrix was prepared by NIOSH Method No. 7300 and analyzed by SW 846 Method No. 6010B.

Client identification (ID) and laboratory ID numbers are as follows:

Field Sample ID	Lab Sample ID	Matrix	Analysis	Sampling Date
ere e			4 50	
JW-LD-3	Z5921-01			12/18/2008
JW-LD-4	Z5921-02	7		12/18/2008
JW-LD-5	Z5921-03	1	Lead	12/18/2008
JW-LD-6	Z5921-04	Air		12/18/2008
JW-LD-7	Z5921-05	7		12/18/2008
JW-LD-BK01	Z5921-06] ·	-	12/18/2008

STANDARD OPERATING PROCEDURE

Page 2 of 2

Title: Evaluation of Inorganic Data for the

Contract laboratory Program

Appendix A.2: Data Assessment Narrative

Date: September 2006 Number: HW-2

Revision: 13

A.2.2 Continuation

Field Sample ID	Lab Sample ID	Matrix	Analysis	Sampling Date
			(47年7月2月2日)	
JW-LD-BK-1	Z5921-07			12/17/2008
JW-LD-FB	Z5921-08			12/17/2008
JW-LD-FB 1218	Z5921-09] A :	Tood	12/18/2008
JW-LD-LB	Z5921-10	Air	Lead	12/18/2008
JW-LD-RST-1218	Z5921-11			12/18/2008
JW-LD-RST2	Z5921-12	1		12/17/2008

All samples were submitted for screening data with definitive detection limit QA objectives. Matrix Spike, Matrix Spike Duplicate and a field duplicate sample was not collected. All samples were analyzed within the holding time. The laboratory provided the supporting raw data for this package. This data package contains summary of analytical results, blank results, initial and continuing calibration recovery, lab duplicate results, laboratory control sample results, and analysis run log. The correlation coefficient (r^2) of standard concentration versus absorbance readings is greater than (>) 0.995 for linear calibration curves generated in the data package. All ICVs/CCVs were run at appropriate intervals as noted on the Calibration Summary form and all ICV/CCV recoveries are within the acceptable range of 90 to 110%. All ICB/CCBs are reported below the method detection limit. Laboratory duplicate analysis is within QC criteria (\leq 20% RPD) and LCS recoveries are within the acceptable range of 80-120%.

Since the sample analyses were requested for screening data with definitive confirmation, data was evaluated for holding time, calibration, and detection limit criterion.

The results presented in the data package are acceptable as reported.

A.2.3 Contract Problem/Non-Compliance:

Contractor Reviewer:	Smita Sumbaly	2/12/09
	Signature	Date:
Verified by:		
	Signature	Date:

TOTAL METALS WORK TABLE

Project: Jewett White Lead Company Site

SAMPLE #/CONCENTRATION (UG/M3)

Sampling Dates: December 17 and 18, 2008

Matrix:	Reporting	Air	Air	Air	Air
Client ID:	Limit (RL)	JW-LD-3	JW-LD-4	JW-LD-5	JW-LD-6
Lab ID:		Z5921-01	Z5921-02	Z5921-03	Z5921-04
Air Volume		728 L	709.8 L	704.45 L [′] >	731.83 L
Dilution Factor	ug/Filter	1.0	1.0	1.0	1.0
Lead	0.042	0.041 J	0.046 J	0.057 J	0.073

Matrix:	Reporting	Air	Air	Air	Air
Client ID:	Limit (RL)	JW-LD-7	JW-LD-BK01	JW-LD-BK-1	JW-LD-FB
Lab ID:		`Z5921-05	Z5921-06	Z5921-07	Z5921-08
Air Volume		743.18 L	32.9 L	556.7 L	NA
Dilution Factor		1.0	1.0	1.0	1.0
					1.0
Lead	0.042	0.053 J	0.721 J	0.379	U

Matrix:	Reporting	Air	Air	Air	Air
Client ID:	Limit (RL)	JW-LD-FB1218	JW-LD-LB	JW-LD-RST-1218	JW-LD-RST2
Lab ID:		Z5921-09	Z5921-10	Z5921-11	Z5921-12
Air Volume		NA .	['] NA	161.54 L	556.48 L
Dilution Factor		1.0	1.0	1.0	1.0
			•		
Lead	0.042	U	U	0.237 J	0.071 J

Inorganic Qualifiers

U - non-detected compound

J - estimated value

R - rejected compound

Note: - RL reported on the Form Is have been adjusted to reflect the final volume and volume of air



February 11, 2009

Weston Solutions, Inc. Raritan Plaza Suite 201 1090 King Georges Post Road Edison, NJ 08837-3703

Attn: Smita Sumbaly

Re: Project ID: RFP 085 Chemtech Project # Z5921

Enclosed please find the revised Case Narrative and Nor Conformance sheet, as per your request. The pages are numbered. Please replace the old data.

Please do not hesitate to contact us if we can be of further service. We appreciate your patience in this matter.

Sincerely,

Krupa Dubey
QA/QC Director
CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

Mountainside, NJ 07092

(908) 789-8900 Ext. 208

www.chemtech.net

www.chemtech.net Since 1967



COVER PAGE

ProjectID:

RFP 085

OrderID:

Z5921

CustomerName:

Weston Solutions, Inc.

LAB SAMPLE NO.	CLIENT SAMPLE NO
Z5921-01	JW-LD-3
Z5921-02	JW-LD-4
Z5921-03	JW-LD-5
Z5921-04	JW-LD-6
Z5921-05	JW-LD-7
Z5921-06	JW-LD-BK01
Z5921-07	JW-LD-BK-1
Z5921-08	JW-LD-FB
Z5921-09	JW-LD-FB1218
Z5921-10	JW-LD-LB
Z5921-11	JW-LD-RST-1218
Z5921-12	JW-LD-RST2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: H ldud V	Mildred V. Reyes 化以上 作品 approving this document
Date:	itle:009.01.05 15:56:46 -05'00'



CASE NARRATIVE

Weston Solutions, Inc. Project Name: RFP 085 Project # N/A Chemtech Project # Z5921

A. Number of Samples and Date of Receipt:

12 Air samples were received on 12/19/08.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Metals Group3. This data package contains results for Metals Group3.

C. Analytical Techniques:

The analysis of Metals Group3 was based on method 7300/6010B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Lab Control Sample met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_

A I ale o V leys

Mildred V. Reyes 1 am approving this document 2009.02.10 15:21:18 -05'00'



Inorganic

DATA REPORTING QUALIFIERS

For reporting results, the following "Results Qualifiers" are used:

J	If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	If the analyte was analyzed for, but not detected.
E	The reported value is estimated because of the presence of interference
M	Duplicate injection precision not met.
N	Spiked sample recovery not within control limits.
s	The reported value was determined by the Method of Standard Addition (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less that 50% of spike absorbance.
* .	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.
***	Entering "S", "W" or "+" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
D	The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers "P" for ICP instrument "A" for Flame AA
	"PM" for ICP when Microwave Digestion is used "AM" for flame AA when Microwave Digestion is used "FM" for furnace AA when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA
	"CA" for MIDI-Distillation Spectrophotometric "AS" for Semi – Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

QA Control # A3040282

5

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

,							JW-	LD-3
Lab Name:	Chemtech	Consult	ing Group	Contract: W	eston	ــــا , Solutions	Inc.	
Lab Code:	CTECH	Case N	To.: <u>Z5921</u>	NRAS No.:	Z5921	sd	G NO.:	Z5921
Matrix (so	il/water):	AIR		Lab Sample ID:	Z5921	-01		
Level (low	/med):	LOW		Date Received:	12/19	/2008		
% Solids:	0.0							
Concentrat	ion Units (ıg/L or m	g/kg dry weigh	ug/M3	_			
	CAS No). ·	Analyte	Concentration	С	Ω.	м	
	7439-	92-1	Lead	0.041	J		P	· ·

Color Before:		Clarity Before:	·	Texture:	
Color After:		Clarity After:	·	Artifacts:	
Comments:					
					· · · · · · · · · · · · · · · · · · ·

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-4					
utions, Inc.					
SDG NO.:	Z5921				
08					

Lab Name:

Chemtech Consulting Group

Contract:

Weston Sol

CTECH

Case No.: Z5921

NRAS No.:

Z5921

Matrix (soil/water):

Lab Sample ID:

Z5921-02

Level (low/med):

LOW

Date Received:

12/19/200

% Solids:

Lab Code:

0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/M3

CAS No.	Analyte	Concentration	С	Q	М
7439-92-1	Lead	0.046	J		P

Color Before:	 Clarity Before:	Texture:	
Color After:	 Clarity After:	Artifacts:	
Comments:			·- <u>-</u>
-			
_	 		

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

							JW-LD)-5	
Lab Name:	Chemtech	Consultin	g Group	Contract:	Weston Solu	tions, I	nc.		
Lab Code:	CTECH	Case No.	: <u>25921</u>	NRAS No.:	Z5921	ŜDG 1	NO.: Z	5921	
Matrix (so	il/water):	AÍR		Lab Sample ID:	25921-03				
Level (low,	med):	LOW	•	Date Received:	12/19/200	8			
Solids:	0.0	0			All Lines				•
Concentrati	on Units (ug/L or mg/	kg dry weight):	UG/M3	<u>3</u>				
	CAS No	· .	Analyte	Concentration	С	Q	М		

0.057

7439-92-1

Lead

Color Before:		Clarity Before:		Texture:		
Color After:	·	Clarity After:	,	Artifacts:	,	7.3
Comments:		***				
·						

1A-IN

INORGANIC ANALYSIS DATA SHEET

JW-LD-6	,⁻,
	i.

Lab Name:	Chemtech	Consult	ing Group	Contract:	Weston Solu	tions, Inc.	
Lab Code:	СТЕСН	Case 1	No.: Z5921	NRAS No.:	z5921	SDG NO.	z5921
Matrix (soi	.1/water):	AIR	<u></u> '	Lab Sample ID:	Z5921-04		
Level (low/	med):	LOW		Date Received:	12/19/200	8	·
% Solids:	0.0)					
Concentrati	on Units (ıg/L or m	g/kg dry weigh	nt): UG/M3	3		
	CAS No),	Analyte	Concentration	С	Q	\Box

Clarity Before:	 Texture:	
Clarity After:	Artifacts:	
		•
	•	

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-7	7

Lab Name:	Chemtech	Consulting	Group	Contract:	Weston Soluti	lons, Inc.	
Lab Code:	CTECH	Case No.	z5921	NRAS No.:	Z5921	SDG NO.: Z5921	
Matrix (so:	il/water):	AIR		Lab Sample ID:	Z5921-05		
Level (low/	/med):	LOW		Date Received:	12/19/2008		
% Solids:	0.	0	 .		-		
Concentrati	ion Units (ug/L or mg/k	g dry weigh	t): UG/M3	<u>3</u>		
	CAS No) A	nalyte	Concentration		<u> </u>	

7439-92-1

Color Before:	Clarity Before:	Texture:
Color After:	Clarity After:	Artifacts:
Comments:		·

1A-IN

INORGANIC ANALYSIS DATA SHEET

JW-LD-BK01	

Lab Name: Chemtech Consulting Group		Group	Contract: V	eston .	Solutio	ns, Inc.		
Lab Code:	CTECH	Case No.:	Z5921	NRAS No.:	Z5921	<u>. </u>	SDG NO.:	Z5921
Matrix (soi	1/water):	AIR	<u> </u>	Lab Sample ID:	Z5921	-06		
Level (low/	med):	LOW		Date Received:	12/19,	/2008		
% Solids:	0.	0					•	
Concentrati	on Units (ug/L or mg/kg	dry weigh	ut): UG/M3		•		
	CAS No	o. Ar	alyte	Concentration	С	Q	м	7
	7439-	92-1 L	ead	0.721	J		P	7

Color Before:	 Clarity Before:	Texture:	
Color After:	Clarity After:	Artifacts:	
Comments:			
· _		 	
		 	

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-BK-1	

Lab Name:	Chemtech	Consulting	Group	Contract:	Weston	Solutions,	Inc.	
Lab Code:	CTECH	Case No.	: <u>z5921</u>	NRAS No.:	Z 5921	SDG	NO.:	Z5921
Matrix (soi	.1/water):	AIR		Lab Sample ID:	Z5921	L-07	_	
Level (low/	med):	LOW		Date Received:	12/19	/2008		
% Solids:	0.0)			-	1		
Concentrati	on Units (u	g/L or mg/k	g dry weight):	UG/M3	3			
•	CAS No	. 2	nalyte	Concentration	С	Q	м	1

0.379

7439-92-1

Lead

Color Before:	Clarity Before:	 Texture:	
Color After:	Clarity After:	Artifacts:	
	•		
Comments:			
'			
_			

1A-IN

INORGANIC ANALYSIS DATA SHEET

JW-LD-FB	

			,	•	•			<u> </u>	
Lab Name:	Chemtech	Consulting	Group	Contract: 1	Veston	Solutions	, Inc.		
Lab Code:	CTECH	Case No.:	Z5921	NRAS No :	25921	. SI	DG NO.:	Z5921	
Matrix (so	il/water):	AIR		Lab Sample ID:	Z5921	-08		-	
Level (low/	med):	LOW		Date Received:	12/19	/2008	,		
% Solids:	0.0)							
Concentrati	on Units (ıg/L or mg/kg	dry weight)	: UG/FILI	<u>re</u>		*		
	CAS No	An	alyte	Concentration	С	Q	м	Ī	
	7439-	92-1 Le	ead	0.042	Ü		P		

Color Before:		Clarity Before:	1	Texture:	
Color After:		Clarity After:		Artifacts:	
Comments:				•	
· · · · · · · · · · · · · · · · · · ·					
		·			

1A-IN

INORGANIC ANALYSIS DATA SHEET

JW-LD-FB1218	

Lab Name:	Chemtech	Consulting	Group	Contract:	Weston	L Solution	ns, Inc.	
Lab Code:	CTECH	Case No.:	Z 5921	NRAS No.:	Z5921		SDG NO.:	Z5921
Matrix (soi	.l/water):	AIR		Lab Sample ID:	Z 5921	L-09	· 	
Level (low/	med):	LOW		Date Received:	12/19	/2008		
% Solids:	0.0)						•
Concentrati	on Units (ug/L or mg/k	g dry weight)	: UG/FII	TE			
	CAS No). A	nalyte	Concentration	С	Q	м	
	7439-	92-1 L	ead	0.042	U		P]

Color Before:	Clarity Before:	Texture:
Color After:	Clarity After:	Artifacts:
Comments:		
-		

`1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-RST-1218

Lab Name: Ch	emtech Consulti	ing Group	Contract: 1	Weston	Solutions,	Inc.	
Lab Code: CTE	CH Case N	o.: <u>z5921</u>	NRAS No.:	z 592	sDC	3 NO.:	Z5921
Matrix (soil/wa	ater): AIR		Lab Sample ID:	Z592	21-11		
Level (low/med)	: LOW		Date Received:	12/1	9/2008		
% Solids:	0.0					. '	
Concentration (Jnits (ug/L or mo	g/kg dry weight):	UG/M3				
	CAS No.	Analyte	Concentration	С	Q	М]
	7439-92-1	Lead	0.237	J		P	,
		•					
					·		
			١				
		•					
•							
	s é						
	·						
	•						
	•	•					
				,			
Color Before:		Clarity Befor	e:		Texture:		·
Color After:	•	Clarity After	:		Artifacts:		

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

	_	
JW-LD-LB		

Lab Name:	Chemtech	Consulti	ng Group	Contract: I	Weston	 Solutio	ns. Inc.	
Lab Code:	CTECH		25921	NRAS No.:	Z592		SDG NO.:	Z5921
Matrix (soi	l/water):	AIR		Lab Sample ID:	Z592	1-10		
Level (low/	med):	LOW		Date Received:	12/1	9/2008		
% Solids:	0.0)			-			•
Concentrati	on Units (ıg/L'or mg	/kg dry weig	ht): UG/FILT	re .			
	CAS No).	Analyte	Concentration	С	· Q	м	7
	7439-	92-1	Lead	0.042	ับ		P	1

Color Before:	 Clarity Before:	Texture:	.*
Color After:	Clarity After:	 Artifacts:	
•	•		
Comments:			. :
•			
 		<u> </u>	

1A-IN

INORGANIC ANALYSIS DATA SHEET

<u> </u>	
JW-LD-RST2	_

Matrix (soil/water): AIR	ab Name:	Chemtech	Consulting	Group	Contract:	Weston So	lutions	, Inc.	
Level (low/med): LOW Date Received: 12/19/2008 % Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/M3 CAS No. Analyte Concentration C Q M	ab Code:	CTECH ·	Case No.:	Z5921	NRAS No.:	Z5921	SI.	OG NO.:	Z5921
% Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/M3 CAS No. Analyte Concentration C Q M	atrix (soi	1/water):	AIR		Lab Sample ID:	Z5921-1	2		
Concentration Units (ug/L or mg/kg dry weight): CAS No. Analyte Concentration C Q M	evel (low/	med):	LOW		Date Received:	12/19/2	800		
CAS No. Analyte Concentration C Q M	Solids:	0.0)						
	oncentratio	on Units (u	ıg/L or mg/k	g dry weigh	t): UG/M3				
7439-92-1 Lord 0.071 T		CAS No	. As	nalyte	Concentration	С	Q	м	
7459-92-1 Lead 0.071 0		7439-9	92-1 L	ead	0.071	J		P	

Color Before:		Clarity Before:	Texture:	
Color After:	·	Clarity After:	Artifact	s:
•				
Comments:				ı
-	<u> </u>			
· .				

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

HEM	ATECH PROJECT NUMBER: 25921	MAI	NIA. All		
ÆTH:	IOD: 7300/6010				•
				NA NO	YES
1.	Calibration Summary met criteria.			NA NO	√ IES
2.	ICP Interference Check Sample Results	Summary Suhmitted	•	•	1
۷.	· · · · · · · · · · · · · · · · · · ·	•			
3.	Serial Dilution Summary (if applicable)	Submitted.		✓	
					:
4.	Laboratory Control Sample Summary (i	f applicable) Submitted.			✓
5.	Blank Contamination - If yes, list compo	ounds and concentrations in ea	ch blank:	_	1
	•				
-				_	
6.	Matrix Spike/Matrix Spike Duplicate Re	ecoveries Met Criteria		✓	
	If not met, list those compounds and the range.	ir recoveries which fall outside	e the acceptable		•
		• .			
7.	Sample Duplicate Analysis Met QC Crit	teria		✓	
	If not met, list those compounds and the	ir recoveries which fall outside	the acceptable		
	range.				•
8.	Digestion Holding Time Met				1
		l for each namelou			. •
	If not met, list number of days exceeded	for each sample.			
		•	•		
9.	Analysis Holding Time Met		•		✓
	If not met, list those compounds and the	ir recoveries which fall outside	the acceptable		
	range.	:		•	
	,	•			
	Uldied Wheys	Mildred V. Reyes I am approving this documer 2009.02.10 15:16:33 -05'00'			
A RE	EVIEW	•	Date		_

Page 1 of 1

Weston Solutions, Inc Edison, NJ 08837

RFP#: 085/PO# 0065659

CHAIN OF CUSTODY RECORD

Site #: JW

Contact Name: Gary Boyer Contact Phone: 732-585-4437 No: JW-12/18/08-0001

Lab: Chemtech Lab Phone: 908-789-8900

Lab#	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	i	Volume	Vol Units
	JW-LD-3	Perimeter	Lead (Pb)		12/18/2008	1	MCE Cassette	728	Liters
	JW-LD-4	Perimeter	Lead (Pb)		12/18/2008	1	MCE Cassette	709.8	Liters
	JW-LD-5	Perimeter	Lead (Pb)		12/18/2008	1	MCE Cassette	704.45	Liters
	JW-LD-6	Perimeter	Lead (Pb)		12/18/2008	1	MCE Cassette	731.83	Liters
	JW-LD-7	Perimeter	Lead (Pb)		12/18/2008.	1	MCE Cassette	743.18	Liters
	JW-LD-BK01	JW-LD-PERS-BK01	Lead (Pb)		12/18/2008	/ 1	MCE Cassette	32.9	Liters
	JW-LD-BK-1	JW-LD-PERS-BK01	Lead (Pb)		12/17/2008	1	MCE Cassette	556.7	Liters
	JW-LD-FB	JW-LD-FB	Lead (Pb)		12/17/2008	1	MCE Cassette		
	JW-LD-FB 12 18	JW-LD-FB	Lead (Pb)		12/18/2008	1	MCE Cassette		
	JW-LD-LB	JW-LD-LB	Lead (Pb)		12/18/2008	1	MCE Cassette		
	JW-LD-RST-1218	JW-RST	Lead (Pb)		12/18/2008	1.	MCE Cassette	161.54	Liters
	JW-LD-RST2	JW-LD-RST-02	Lead (Pb)		12/17/2008	1	MCE Cassette	556.48	
		 							
	- Caralla de la caractería de la caracte								
-									

		SAMPLES TRANSFERRED FROM
Special Instructions:	•	CHAIN OF CUSTODY #
	,	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all transfer	Say Bypu	12/18/08	Fell Ex	12/18/08	1900	·					
					.						
	FED FX	12-19-0	8 a Juiez	A 12-19-	98 9						

U.S. ENVIRONMENTAL PROTECTION AGENCY

February 11, 2009

MEMORANDUM

DATE:

TO:	Nick Magriples, OSC USEPA Region II	
FROM:	Smita Sumbaly RST 2 Data Review Tear	n
SUBJECT:	QA/QC Compliance Rev	iew Summary
examined and		neasures for the data packages noted have been ompliance. Measures for the following general
	Data Completeness Spectra Matching Quality Surrogate Spikes Matrix Spikes/Duplicates Calibration	Blanks DFTPP and BFB Tuning Chromatography Holding Times Compound ID (HSL, TIC)
may be review		wing conclusions are attached so that the review
Summa	I Lead	<u> </u>
Acceptable as Acceptable wit Unacceptable, Unacceptable	—;————	
Data Reviewed	l hv	Data: al. la A
Approved By: Area Code/Pho	Janufus	Date: 2/11/09 Date: 2/11/09

NARRATIVE

CASE No. 2139

SITE NAME: <u>Jewett White Lead Company Site</u>

2000 Richmond Terrace

Staten Island, New York

Laboratory Name: Chemtech, 284 Sheffield Street, Mountainside, New Jersey 07092.

INTRODUCTION:

The laboratory's portion of this Case consisted of 12 air samples collected on December 17 and 18, 2008.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Total Lead - Inorganic parameter.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody have been copied from the original data package and appended to the data assessment narrative for reference.

IV. Inorganic:-

Y Data Summary/Tabulated Results	Y Initial and Continuing Calibration
Y Blanks	Y ICP Interference Check
NA Spike Sample Recovery	Y Duplicates
Y Detection Limits	NA Standard Addition Results
NA ICP Serial Dilutions	Y Holding Times
NA ICP Interelement Correction Factors	NA ICP Linear Ranges
Y Chain of Custody	Y Raw Data
Y Quantitation, Conversions, Dilutions,	etc.

Comments:

1. Refer to Data Assessment Narrative.

STANDARD OPERATING PROCEDURE

Page 1 of 2

Title:

Evaluation of Inorganic Data for the

Contract laboratory Program

Appendix A.2: Data Assessment Narrative

Date: September 2006

Number: HW-2

Revision: 13

PCS #: 2139

Site: Jewett White Lead Chemical Site

SDG#: Z5921

Lab: Chemtech

Matrix: Air: 12

Contractor: WESTON-RST 2

Reviewer: SMITA SUMBALY

A.2.1 Validation Flags-

The following flags have been applied in red by the data validator and must

be considered by the data user.

J-

This flag indicates the result qualified as estimated.

Red-Line-

A red-line drawn through a sample result indicates an unusable value. The

red-lined data are known to contain significant errors based on documented

information and must not be used by the data user.

Fully Usable Data-

The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers-

The legend of contractual qualifiers applied by the laboratory on Form Is are

found on page B - 23 of SOW ILM05.3.

A.2.2 The data assessment is given below and on the attached sheets.

On December 17 and 18, 2008, USEPA Region II RST 2 sampling personnel collected 12 air samples, including two field blanks and one lot blank from the Jewett White Lead Company Site, located in 2000 Richmond Terrace, Staten Island, New York. Within twenty-four hours of collection, the samples were shipped overnight by FedEx courier to Chemtech, 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that the samples were received intact and properly custody sealed.

Lead analysis for air matrix was prepared by NIOSH Method No. 7300 and analyzed by SW 846 Method No. 6010B.

Client identification (ID) and laboratory ID numbers are as follows:

Field Sample ID	Lab Sample ID	Matrix Analysis		Sampling Date
JW-LD-3	Z5921-01			12/18/2008
JW-LD-4	Z5921-02			12/18/2008
JW-LD-5	Z5921-03]	,	12/18/2008
JW-LD-6	Z5921-04	Air	Lead	12/18/2008
JW-LD-7	Z5921-05			12/18/2008
JW-LD-BK01	Z5921-06			12/18/2008

STANDARD OPERATING PROCEDURE

Page 2 of 2

Title: Evaluation of Inorganic Data for the

Contract laboratory Program

Appendix A.2: Data Assessment Narrative

Date: September 2006

Number: HW-2 Revision: 13

A.2.2 Continuation

Field Sample ID	Lab Sample ID	Matrix	Analysis	Sampling Date
ALCOTO CONTRACT		ryderig d	经外部的	ANNERS EXERT
JW-LD-BK-1	Z5921-07		7	12/17/2008
JW-LD-FB	Z5921-08	•		12/17/2008
JW-LD-FB 1218	Z5921-09		1	12/18/2008
JW-LD-LB	Z5921-10	Air	Lead	12/18/2008
JW-LD-RST-1218	Z5921-11			12/18/2008
JW-LD-RST2	Z5921-12		J	12/17/2008

All samples were submitted for screening data with definitive detection limit QA objectives. Matrix Spike, Matrix Spike Duplicate and a field duplicate sample was not collected. All samples were analyzed within the holding time. The laboratory provided the supporting raw data for this package. This data package contains summary of analytical results, blank results, initial and continuing calibration recovery, lab duplicate results, laboratory control sample results, and analysis run log. The correlation coefficient (r^2) of standard concentration versus absorbance readings is greater than (>) 0.995 for linear calibration curves generated in the data package. All ICVs/CCVs were run at appropriate intervals as noted on the Calibration Summary form and all ICV/CCV recoveries are within the acceptable range of 90 to 110%. All ICB/CCBs are reported below the method detection limit. Laboratory duplicate analysis is within QC criteria (\leq 20% RPD) and LCS recoveries are within the acceptable range of 80-120%.

Since the sample analyses were requested for screening data with definitive confirmation, data was evaluated for holding time, calibration, and detection limit criterion.

The results presented in the data package are acceptable as reported.

A.2.3 Contract Problem/Non-Compliance:

Contractor Rev	iewer:	Smi	ta Sumbaly	Por			2/12/09
	· · · · · · · · · · · · · · · · · · ·		Signature		e af	*	Date:
Verified by:					r		
			Signature		-		Date:

TOTAL METALS WORK TABLE

Project: Jewett White Lead Company Site

SAMPLE #/CONCENTRATION (UG/M3)

Sampling Dates: December 17 and 18, 2008

Matrix:	Reporting	Air	Air	Air	Air
Client ID:	Limit (RL)	JW-LD-3	JW-LD-4	JW-LD-5	JW-LD-6
Lab ID:		Z5921-01	Z5921-02	Z5921-03	Z5921-04
Air Volume		728 L	709.8 L	704.45 L	731.83 L
Dilution Factor	ug/Filter	1.0	1.0	1.0	1.0
Lead	0.042	0.041 J	0.046 J	. 0.057 J	0.073

					· · · · · · · · · · · · · · · · · · ·
Matrix:	Reporting	Air	Air	Air	Air
Client ID:	Limit (RL)	JW-LD-7	JW-LD-BK01	JW-LD-BK-1	JW-LD-FB
Lab ID:	1 1 1 N 1	Z5921-05	Z5921-06	Z5921-07	Z5921-08
Air Volume		743.18 L	32.9 L	556.7 L	NA NA
Dilution Factor		1.0	1.0	1.0	1.0
				4	
Lead	0.042	0.053 J	○ 0.721 J	0.379	U

Matrix:	Reporting	Air	Air	Air	Air
Client ID:	Limit (RL)	JW-LD-FB1218	JW-LD-LB	JW-LD-RST-1218	JW-LD-RST2
Lab ID:		Z5921-09	Z5921-10	Z5921-11	/ Z5921-12
Air Volume		NA	NA	161.54 L	556.48 L
Dilution Factor		1.0	1.0	1.0	1.0
Lead	0.042	U ·	U	0.237 J	0.Q71 J

Inorganic Qualifiers

U - non-detected compound

J - estimated value:

R-- rejected compound.

Note: - RL reported on the Form Is have been adjusted to reflect the final volume and volume of air



February 11, 2009

Weston Solutions, Inc. Raritan Plaza Suite 201 1090 King Georges Post Road Edison, NJ 08837-3703

Attn: Smita Sumbaly

Re: Project ID: RFP 085 Chemtech Project # Z5921

Enclosed please find the revised Case Narrative and NorConformance sheet, as per your request. The pages are numbered. Please replace the old data.

Please do not hesitate to contact us if we can be of further service. We appreciate your patience in this matter.

Sincerely,

Krupa Dubey
QA/QC Director
CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

Mountainside, NJ 07092

(908) 789-8900 Ext. 208

www.chemtech.net

www.chemtech.net Since 1967



COVER PAGE

ProjectID: RFP 085

OrderID: Z5921 CustomerName: Weston Solutions, Inc.

LAB SAMPLE NO.	CLIENT SAMPLE NO
Z5921-01	JW-LD-3
Z5921-02	JW-LD-4
Z5921-03	JW-LD-5
Z5921-04	JW-LD-6
Z5921-05	JW-LD-7
Z5921-06	JW-LD-BK01
Z5921-07	JW-LD-BK-1
Z5921-08	JW-LD-FB
Z5921-09	,JW-LD-FB1218
Z5921-10	JW-LD-LB
Z5921-11	JW-LD-RST-1218
Z5921-12	JW-LD-RST2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature:	HIlde	ed V	Rei	Mildred V. Reyes Pan approving this document	
Date:		< .	1	2009.01.05 15:56:46 -05'00'	_



CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 085
Project # N/A
Chemtech Project # Z5921

A. Number of Samples and Date of Receipt:

12 Air samples were received on 12/19/08.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Metals Group3. This data package contains results for Metals Group3.

C. Analytical Techniques:

The analysis of Metals Group3 was based on method 7300/6010B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Lab Control Sample met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature

Addres V Regs

Mildred V. Reyes
I am approving this document



Inorganic

DATA REPORTING QUALIFIERS

For reporting results, the following "Results Qualifiers" are used:

· J	If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	If the analyte was analyzed for, but not detected.
E	The reported value is estimated because of the presence of interference
M	Duplicate injection precision not met.
N	Spiked sample recovery not within control limits.
S	The reported value was determined by the Method of Standard Addition (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less that 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	. Correlation coefficient for the MSA is less than 0.995.
***	Entering "S", "W" or " +" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
D	The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers "P" for ICP instrument "A" for Flame AA "PM" for ICP when Microwave Digestion is used
•	"AM" for flame AA when Microwave Digestion is used "FM" for furnace AA when Microwave Digestion is used
	"CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI Distillation Spectrombet and the second se
	"CA" for MIDI-Distillation Spectrophotometric "AS" for Semi -Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric
OR	"NR" for analyte not required to be analyzed Indicates the analyte's concentration exceeds the calibrated range of the
	instrument for that specific analysis.

QA Control # A3040282

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

		11	
J	W-LD	-3	
1			

		**
Lab Name:	Chemtech Consulting Group	Contract: Weston Solutions, Inc.
an name:	Chemitech Consulting Group	contract: weston solutions, inc.
•		

NRAS No : Lab Code: **CTECH** Case No.: Z5921 Z5921 SDG NO.: **Z**5921

Matrix (soil/water): Lab Sample ID: Z5921-01

Level (low/med): Date Received: 12/19/2008

% Solids: Concentration Units (ug/L or mg/kg dry weight):

0.0

UG/M3

	CAS No.	Analyte	Concentration	C	Q	м
•	7439-92-1	Lead	0.041	J		P

Color Before:		Clarity Before:	 Texture:	
Color After:		Clarity After:	Artifacts:	
Comments:	· ·			
Commencs:				
				· · · · · · · · · · · · · · · · · · ·

1A-IN.

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

J	W-LD-4	
ons, Inc.		
SDG NO.	25921	5 .

Chemtech Consulting Group

Contract:

Weston Solution

Lab Code:

CTECH

Case No.: Z5921

NRAS No.:

Z5921

Matrix (soil/water):

AIR

Lab Sample ID:

Z5921-02

Level (low/med):

LOW

Date Received:

12/19/2008

% Solids:

0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/M3

-	CAS No.	Analyte	Concentration	С	Q	М
	7439-92-1	Lead	0.046	J		P

Color Be	fore:		·	Clarity	Before:			Textur	e:		T.
Color Af	ter:			Clarity	After:		 ;	Artifa	icts:	 ,	
Comments	: :	,		-				· ·		-, -	
						·					
	· · · · · · · · · · · · · · · · · · ·										

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-5	7
ions, Inc.	
SDG NO.: Z5921	

Lab Name: Chemtech Consulting Group

Contract:

Weston Solutions, Inc.

Lab Code:

CTECH

Case No.: Z5921

NRAS No.:

Z5921

Matrix (soil/water):

AIR

Lab Sample ID:

Z5921-03

Level (low/med):

LOW

Date Received:

12/19/2008

% Solids:

0.0

Concentration Units (ug/L or mg/kg dry weight):

UG/M3

L	CAS No.	Analyte	Concentration	C _.	Q	М
	7439-92-1	Lead	0.057	J		P

Color Before:		Clarity Before:		Texture:			
Color Afte	er:	· · · · · · · · · · · · · · · · · · ·	·	Clarity After:		Artifacts:	,
	. :.						
Comments:					-		
	-			<u> </u>			
	•						
							

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

		JW-LD-6				
Contract:	Weston Soluti	ons, Inc.				
NRAS No.:	Z5921	SDG NO :	Z5921	•		
Sample ID:	25921-04					
o Bossinoi.	***********	5 .	•	•		

Lab Name: Chemtech Consulting Group

Case No.: Z5921

NRAS No.:

Matrix (soil/water):

Lab Sample ID:

Level (low/med):

AIR LOW

Date Received:

12/19/2008

% Solids:

Lab Code:

0.0

CTECH

Concentration Units (ug/L or mg/kg dry weight): UG/M3

	CAS No.	Analyte	Concentration	C.	 Q	 м
•	7439-92-1	Lead	0.073			P

Color Before:	Clarity Before:		Texture:	
Color After:	Clarity After:		Artifacts:	
			· · · · · · · · · · · · · · · · · · ·	
Comments:		•		
				 .
	,	<u> </u>		
and the second of the second of		,		

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

			,
	JW-LD-7	٠	
-			

-								
Lab Name:	Chemtech	Consul	ting	Group	Contract: 1	Weston Solut	ions, Inc.	
Lab Code:	CTECH	Case	No.:	Z5921	NRAS No.:	Z5921)	SDG NO.:	Z5921
Matrix (soi	ll/water):	AIR			Lab Sample ID:	z5921-05		
Level (low/	med):	LOW			Date Received:	12/19/2008	1	
% Solids:	0.0							
Concentrati	on Units (u	g/L or	mg/kg	dry weight):	UG/M3	<u>. </u>	· · · · · · · · · · · · · · · · · · ·	
•	CAS No	• ,	Ana	alyte -	Concentration	c	Q M	1

0.053

7439-92-1

Lead

Color After:		Clarity Before:	<u></u>	Texture:		
		Clarity After:		Artifacts:		
				•	· · · · · · · · · · · · · · · · · · ·	. ,
Comments:						
	1 1					
	t					
· · · · · · · · · · · · · · · · · · ·						 .

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA	SAMPLE	NO.

	 _	_
JW-LD-BK01		
OM-TD-PVOI		

Lab Name:	Chemtech	Consulting	Group	Contract: W	eston Solutio	ons, Inc.	
Lab Code:	CTECH	Case No.:	Z5921	NRAS No.:	z5921	SDG NO.:	Z 5921
Matrix (soi	1/water):	AIR	· · · · /	Lab Sample ID:	Z5921-06		
Level (low/	med):	LOW		Date Received:	12/19/2008		
% Solids:	0.0)			•		
Concentration	on Units (u	g/L or mg/k	g dry weight)	UG/M3			•
	CAS No	. А	nalyte	Concentration	C Q	М]
	7439-9	92-1 I	ead	0.721	J	P	

Color Before:		Clarity Before:	 Texture:	
Color After:		Clarity After:	Artifacts:	
Comments:				
·	<u> </u>			

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

	JW-LD-	-BK-1	
:	_		

Lab Name:	Chemtech	Consult	ing G	Group	Contract:	Weston	Soluti	ons, I	nc.	:	·
Lab Code:	CTECH	Case	No.:	25921	NRAS No.:	Z592	1	SDG 1	NO.:	Z5921	
Matrix (soi	1/water):	AIR		·	Lab Sample ID:	Z592	1-07	•	·	<i>:</i> .	·,
Level (low/	med):	LOW		V	Date Received:	12/1	9/2008				••
% Solids:	0.0			-	•				•		
Concentrati	on Units (u	g/L or m	ng/kg	dry weight):	UG/M	<u>13</u>				•	
-	CAS No		Ana	lyte	Concentration	C.	Q		м	1	

0.379

7439-92-1

Lead

Color Before:	· · · · · · · · · · · · · · · · · · ·	Clarity Before:	Texture:	
Color After:		Clarity After:	 Artifacts:	
				. ,
Comments:	· · · · · · · · · · · · · · · · · · ·			
		,	*	

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

				_
•	JW-LD-	-FB		
	•	•	2	

	•			44				
Lab Name:	Chemtech	Consultin	g Group	Contract:	Weston Soluti	ons, 1	Inc.	
Lab Code:	СТЕСН	Case No	.: <u>Z5921</u>	NRAS No.:	Z5921	SDG	NO.:	Z5921
Matrix (soi	.1/water):	AIR		Lab Sample ID:	Z5921-08	>-	- %	
Level (low/	med):	LOW		Date Received:	12/19/2008			,
% Solids:	0.0)				.,		
Concentrati	on Units (1	ıg/L or mg/	kg dry weight)	: UG/FIL	<u>te</u>	٠.	. •	
·	CAS No	· ·	Analyte	Concentration	c o	}	М	
	7439-	92-1	Lead	0.042	U		P	

0.042

Color Before:	 Clarity Before:		Texture:		
Color After:	 Clarity After:	· · · · · · · · · · · · · · · · · · ·	Artifacts:		
Comments:		· · · · · · · · · · · · · · · · · · ·			
				•	
** *					

1A-IN

INORGANIC ANALYSIS DATA SHEET

77.1		•		_		_	•	_	
. I W	-1	a D	_	H'H	∢	•	7	×	

Lab Name:	Chemtech	Consulting	Group	Contract:	Weston	Solutions,	Inc.	,
•	CTECH	Case No.:		NRAS No.:	Z592		G NO.:	Z5921
Matrix (soil	l/water):	AIR	_	Lab Sample ID:	z592:	1-09	<u></u> ., .	
Level (low/m	med):	LOW		Date Received:	12/19	9/2008	,	,
% Solids:	0.0) ·			,		, .	
Concentratio	on Units (u	ng/L or mg/kg	dry weight):	UG/FIL	TE			
	CAS No	An	alyte	Concentration	C	Q	м	
	7439-	92-1 Le	ead	0.042	U		P	′/

Color Before:		Clarity Before:	Texture:	
Color After:	·	Clarity After:	 Artifacts:	
Comments:			• •	
\			 	(

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-LB	

			•	•			
Lab Name:	Chemtech	Consulting	Group	Contrac	t: Wes	ston Solutions!	Inc

Lab Code: CTECH Case No.: Z5921 NRAS No.: Z5921 SDG NO.: Z5921

Matrix (soil/water): AIR Lab Sample ID: Z5921-10

Level (low/med): LOW Date Received: 12/19/2008

Concentration Units (ug/L or mg/kg dry weight): UG/FILTE

% Solids:

CAS No.	Analyte	Concentration	C	Q	: M
7439-92-1	Lead	0.04	2 U		P

Color Before:	Clarity Before:	Texture:	
Color After:	Clarity After:	Artifacts:	
Comments:			
-			
·			

1A-IN

Lab Name:

Color Before:

Color After:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JW-LD-RST-1218

Lab Name: Chemtech Consulting Group			Contract: W	eston Sol	c				
Lab Code: CTECH	Case No	o.: <u>25921</u>	NRAS No.:	25921	SDG NO).:	Z5921		
Matrix (soil/wate	r): , AIR ,	· · ·	Lab Sample ID:	Z5921-11		•			
Level (low/med):	LOW		Date Received:	12/19/200					
% Solids:	0.0					· .			
Concentration Uni	ts (ug/L or mg	/kg dry weight):	UG/M3	_			•		
C	AS No.	Analyte	Concentration	С	Q	М			
7.	439-92-1	Lead	0.237	J		P			
		<u> </u>	,		,				

18

Clarity Before:

Clarity After:

Artifacts:

1A-IN

INORGANIC ANALYSIS DATA SHEET

			١.	
JW	-LI	-RST2		

											
Lab Name:	Chemtech	Consulting	Group	Contract:	Weston Solution	Weston Solutions, Inc.					
Lab Code:	СТЕСН	/water): AIR ed): LOW 0.0 Units (ug/L or mg/kg dry weight): CAS No. Analyte	NRAS No.:	Z5921	SDG NO : Z5921						
Matrix (soi	.l/water):	AIR		Lab Sample ID:	Z5921-12		,				
Level (low/	med):	LOW		Date Received:	12/19/2008						
% Solids:	0.0)									
Concentrati	on Units (g/L or mg/kg	g dry weight):	UG/M3	3						
· v	CAS No	Ar	nalyte	Concentration	C Q	M					
1					- 1 - 1	1 5	•				

Color Before:	<u> </u>	Clarity Before:		Texture:	·
Color After:		Clarity After:		Artifacts:	
				•	
Comments:					
•					
•	, , , ,				
-			· · · · · · · · · · · · · · · · · · ·		

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEM	TECH PROJECT NUMBER: Z5921		MATRIX: Air	• •		
METH	OD: 7300/6010			٠.,		
٠,٠٠			•			
		1			.	****
1.	Calibration Summary met criteria.			NA	NO	YES
2.	ICP Interference Check Sample Results Su	mmary Submitted.	3. •		· .	1
3.	Serial Dilution Summary (if applicable) Su					,
J.	Serial Dilution Schillary (II appreadic) Su	ioiiiiii.		•		
						•
4.	Laboratory Control Sample Summary (if a	pplicable) Submitted.	الأريد الاستسعاد الدا	*		1
5.	Blank Contamination - If yes, list compoun	nds and concentrations	in each blank:			1
				-	•	
6.	Matrix Spike/Matrix Spike Duplicate Reco	venes Met Criteria		✓ .		
	If not met, list those compounds and their range.	ecoveries which fall or	utside the acceptab	le		•
	Taligo.		:			1
e e e e e e e e e e e e e e e e e e e		1				
7.	Sample Duplicate Analysis Met QC Criteri	8.		✓		٠,
	If not met, list those compounds and their r	ecoveries which fall or	utside the acceptabl	le		· ·.
	range.					
8.	Digestion Holding Time Met		-			. ✓
•	If not met, list number of days exceeded for	r each sample:				
, ,						
9.	Analysis Holding Time Met					√
	If not met, list those compounds and their rerange.	ecoveries which fall ou	itside the acceptabl	e		
	ımığ.					
		Mildred V. Reyes			•	٠, .
_	A Stady Rugs	l am approving this doc 2009.02.10 15:16:33 -0				
QA REV		2003.02. (0. 10. 10.33 -0	Date			

Page 1 of 1

Weston Solutions, Inc Edison, NJ 08837

RFP#: 085/PO# 0065659

CHAIN OF CUSTODY RECORD

Site #: JW

Contact Name: Gary Boyer Contact Phone: 732-585-4437 No: JW-12/18/08-0001

Lab: Chemtech Lab Phone: 908-789-8900

Lab#	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Volume	Vol Units
	JW-LD-3	Perimeter	Lead (Pb)		12/18/2008	. 1	MCE Cassette	728	Liters
, · ·	JW-LD-4	Perimeter	Lead (Pb)		12/18/2008	1	MCE Cassette	7.09.8	
	JW-LD-5	Perimeter	Lead (Pb)		12/18/2008	′ 1	MCE Cassette	704.45	
	JW-LD-6	Perimeter	Lead (Pb)	· 	12/18/2008	1	MCE Cassette	731.83	
	JW-LD-7	Perimeter	Lead (Pb)		12/18/2008	- 1	MCE Cassette	743.18	
_	JW-LD-BK01	JW-LD-PERS-BK01	Lead (Pb)		12/18/2008	1	MCE Cassette	32.9	Liters
	JW-LD-BK-1	JW-LD-PERS-BK01	Lead (Pb)	 	12/17/2008		MCE Cassette	556.7	Liters
	JW-LD-FB	JW-LD-FB	Lead (Pb)		12/17/2008	1	MCE Cassette		Liters
	JW-LD-FB 12 18	JW-LD-FB	Lead (Pb)	· · · · · ·	12/18/2008		MCE Cassette	 	
	JW-LD-LB	JW-LD-LB	Lead (Pb)		12/18/2008	1	MCE Cassette		<u> </u>
	JW-LD-RST-1218	JW-RST	Lead (Pb)		12/18/2008	- 1	MCE Cassette	101 54	I tara ma
	JW-LD-RST2	JW-LD-RST-02	Lead (Pb)		12/17/2008				Liters
					12/1/12008		MCE Cassette	556.48	Liters

	 	 	<u></u>	· · · · · · · · · · · · · · · · · · ·	 	·			
On a stable A				•		SAMPLES	TRANSFERRED	FROM	
Special Instructions:		•		,		CHAIN OF	CUSTODY#	10000	
				•					•
,	 	 			 	L			

Items/Reason	Relinquished by	- Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by,	Date	Time
all transfer	Lay Byen	12/18/08	Fell Ex	12/18/08	1900						
			_								
	FED EX	12-19-0	8 a Triest	12-19-	9 9:4						